

**ABSTRACT**

An intrinsically safe portable programmer for communicating with the electronic process control equipment over a wireless communication link. The portable programmer comprises a microprocessor controlled electronic circuit housed in an enclosure formed from a polymers polystyrene having a low surface resistivity. The electronic circuit is mounted inside the enclosure with a low voltage battery supply and encased in epoxy to prevent sparking. The electronic circuit includes an infrared transmitter and a keypad. In response to keypad inputs, the electronic circuit generates control signals which are transmitted to the electronic process control equipment via the infrared transmitter.